

Physical Review E - Statistical, Nonlinear, and Soft Matter Physics 2001 vol.64 N5 II, pages 057101/1-057101/4

---

## **Time-scale invariance of relaxation processes of density fluctuation in slow neutron scattering in liquid cesium**

Yulmetyev R., Mokshin A., Hänggi P., Shurygin V.  
*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

---

### **Abstract**

The idea of invariance is considered for an explanation of a specific nature of high-frequency collective excitations in liquid cesium. In particular, the idea of time-scale invariance of relaxation processes in liquids is suggested. This invariance can be easily taken into account by the memory functions formalism.

---